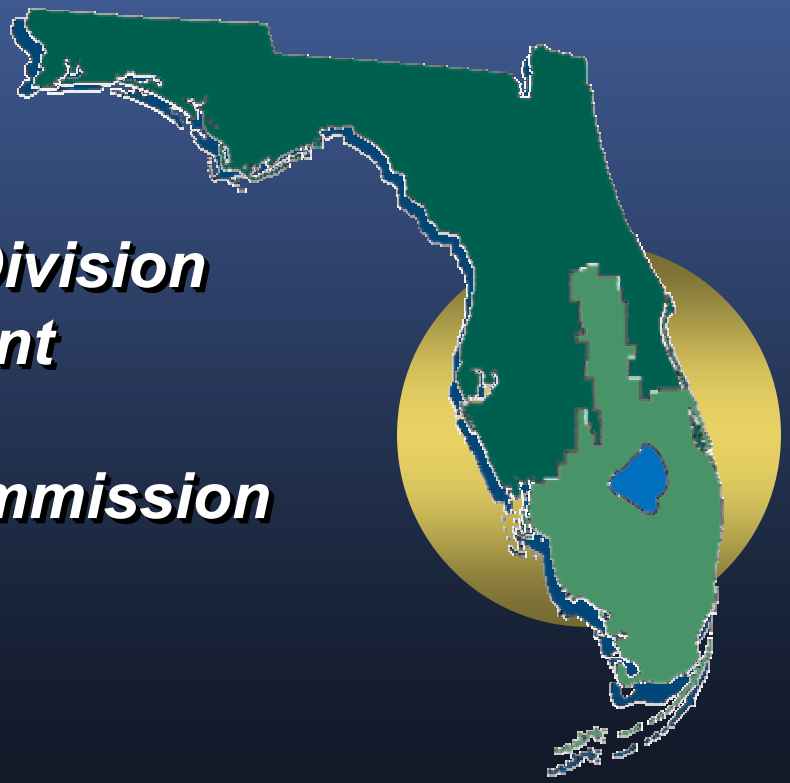
2004 Upper East Coast Water Supply Plan Update Status Report

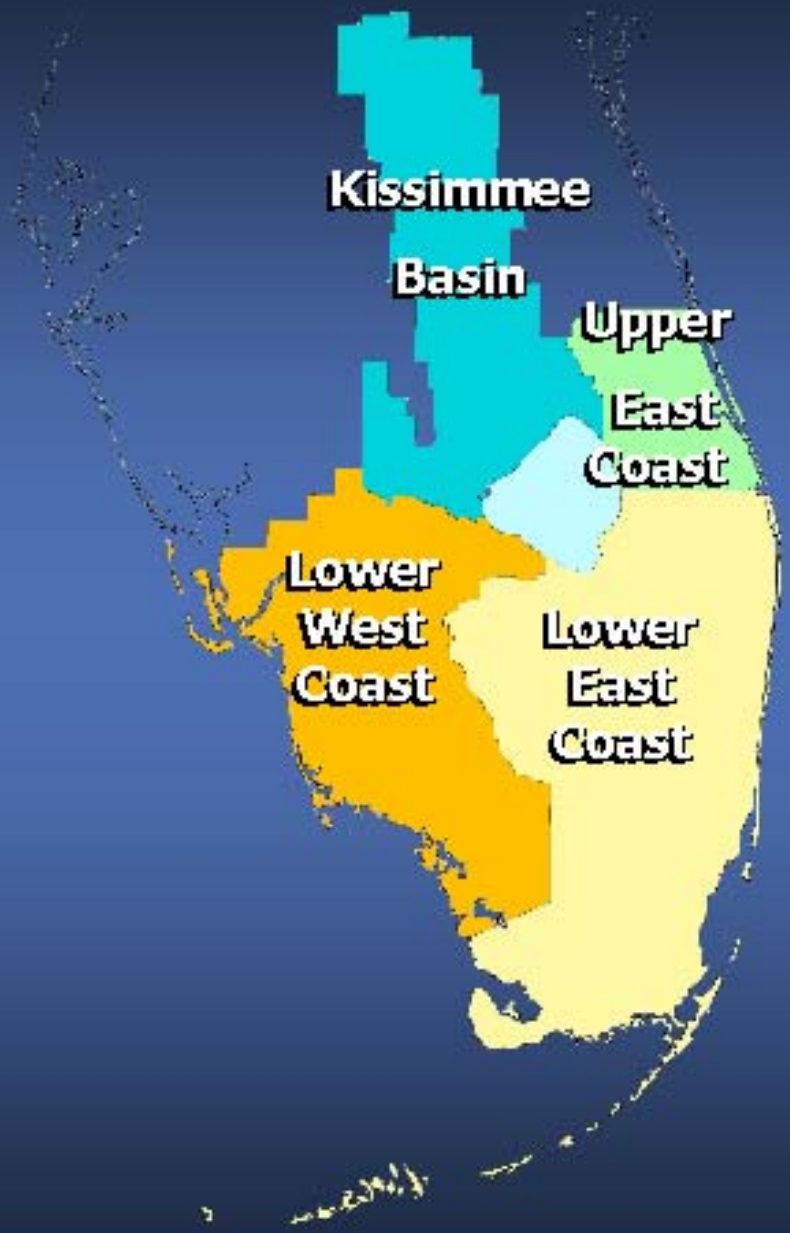


Mark Elsner, P.E.
Planning and Development Division
Water Supply Department

Water Resources Advisory Commission
December 4, 2003

Water Supply Plan Requirements

- 20 year Planning Period
- 1-in-10 Level of Certainty
- Water Resource Development
  - schedules, costs, funding strategies
- Water Supply Development
  - options, effectiveness, estimated cost
- Minimum Flows and Levels (MFLs)
  - recovery and prevention strategies



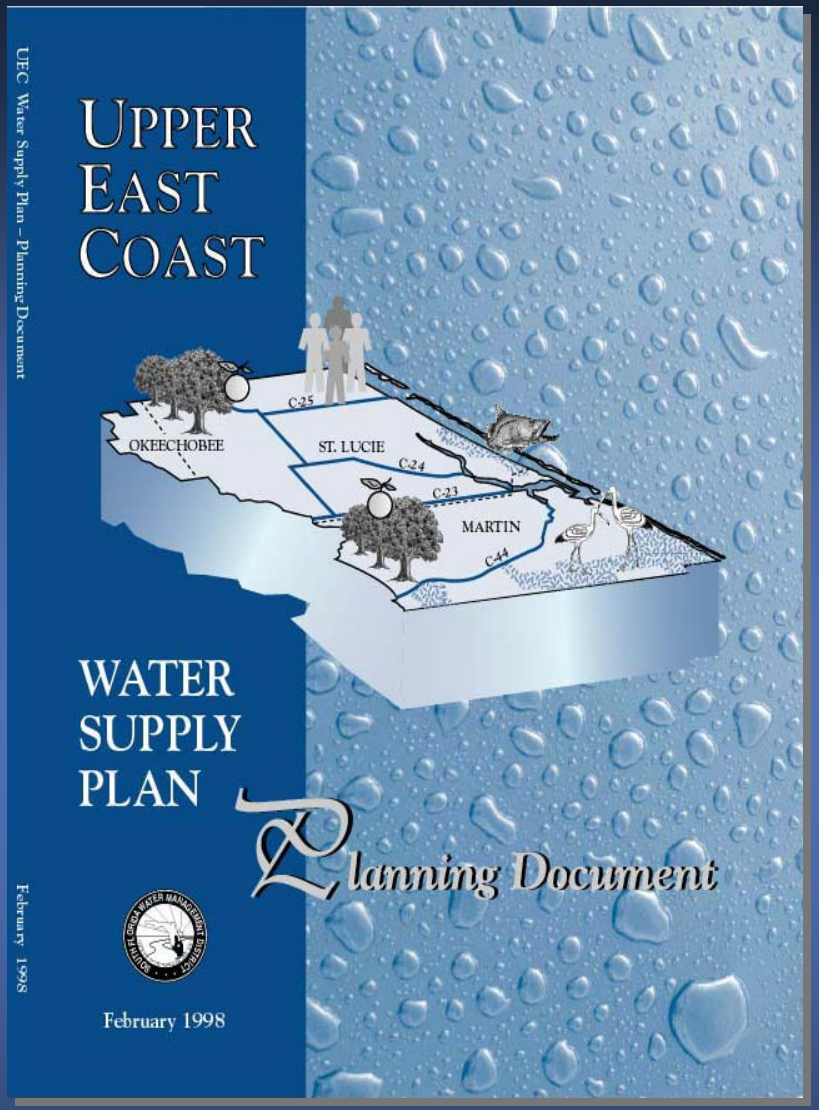
Four Planning Regions

Public Input Process for Water Supply Plan Updates

- Water Resources Advisory Commission
  - Serves as overall forum
- Public Workshops in each region
  - At least five per region
  - Conducted as water supply plan regional workshops
  - Opportunities to build consensus
- Feedback to WRAC and GB

1998 Upper East Coast Water Supply Plan

- 1990 – 2020 planning horizon
- Shift public water supply to the Floridan aquifer
- Increase use of reclaimed water for urban irrigation
- Increase conservation measures
- Implement Indian River Lagoon Feasibility Study to address flow regimes to estuarine systems and enhance surface water availability



2004 Upper East Coast Update

- Planning Horizon 2000 - 2025
- Population projected to increase by 165,846 (52%) to 486,510
- Citrus acreage forecast to decrease by 12,346 acres (-8%) to 134,804
- Overall water demands estimated to increase by 29 MGD (12%) to 277 MGD

Upper East Coast Water Supply Plan Update Planning Process

(Revised November 6, 2003)

Workshop 1 (May 30, 2003)
Kick-Off Meeting

- 1998 UECWSP Overview
- Accomplishments
- Consumptive Use Permitting
- Indian River Lagoon Feasibility Study Update

Workshop 2 (Aug. 8, 2003)
Analysis Approach for Plan Update

- Status of agricultural users
- Status of public water suppliers
- Proposed process for plan update
- Plan expectations
- Distribute draft Chapter 1 (Introduction)

Workshop 3 (Sept. 18, 2003)
Goals & Objectives

- Discuss draft Chapter 1
- Agricultural acreage & population projections

Distribute draft Chapter 2 (Demand Estimates & Projections) & draft Chapter 3 (Resource Analysis) by mail

Workshop 4 (Nov. 7, 2003)
Finalize Objectives

- Discuss draft Chapters 2 & 3
- Distribute draft Chapter 4 (Issue Identification) & draft Consolidated Water Supply Support Document
- Status of 1998 Plan recommendations

Report to WRAC on Dec. 4, 2003

Report to Governing Board on Dec. 11, 2003

Distribute partial draft Chapter 5 (Recommendations) by mail

Workshop 5 (Jan. 21, 2004)
Refine Recommendations

- Review draft Chapters 4 & 5

Workshop 6 (Feb. 27, 2004)
Finalize Recommendations

- Finalize draft Chapter 5
- Review draft Document (Chapters 1-5)

Draft document due April 1, 2004
Final document due June 30, 2004

2004 Plan Update Status

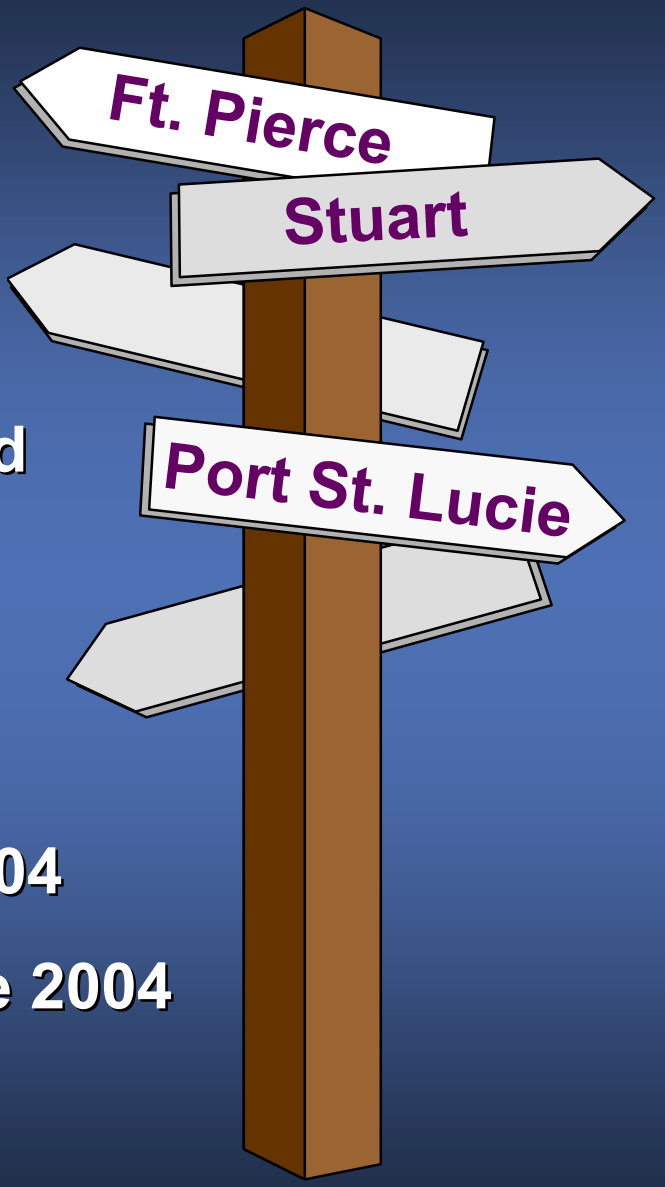
- Four public workshops held to date
- Draft Chapters 1- 4 distributed
- Consolidated Water Supply Support Document distributed
- Concluded analysis associated with 1998 UEC Water Supply Plan is in agreement with the 2025 Plan Update scenario

Preliminary Issues

- Limited expansion of surficial aquifer
  - Wetland impacts
  - Saltwater intrusion
- Freshwater flow regimes to estuaries
- Surface water availability

WHAT'S NEXT?

- Governing Board Presentation on December 11
- Public Workshops on January 21 and February 27
- Identify water source options
- Development of recommendations
- Complete draft of the plan - April 2004
- Final plan to Governing Board - June 2004



sfwmd.gov

Water Supply Plans

KISSIMMEE BASIN | UPPER EAST COAST | LOWER EAST COAST | LOWER WEST COAST

Upper East Coast Water Supply Plan

2004 Update:

Introduction

Contact Information

Documents

Process *(pdf 20KB)*

Public Workshops

Loxahatchee River and Estuary

Upper East Coast Water Use Permit Renewals

Documents:

February 1998 Water Supply Plan

Introduction:

Planning Areas

Planning Goals (1998) *(PDF 12KB)*

Executive Summary

The Upper East Coast region is expected to experience substantial growth between now and the year 2020. Population is expected to increase by almost 80 percent from 1990 levels, with expansion occurring mostly in the coastal areas. Likewise, agriculture - primarily citrus located in the western portion of the region - is expected to remain a cornerstone of the region's economy. Meeting water demands while addressing the water needs of the environment makes development of proactive water supply strategies imperative to the economic and environmental sustainability of the area. It is the intent of the legislature to promote the availability of sufficient water for all existing and future reasonable-beneficial uses and natural systems. Implementation of the Upper East Coast Water Supply Plan should avert potential problems if the water resources are managed properly.

This planning document is the product of a public process, which relied heavily on an advisory committee of diverse membership representing the interests and concerns of the region. The planning effort provided a forum to weigh projected water demands of urban areas, agriculture and the environment against available supplies.

Overall, it was concluded that historically used sources of water, especially the Surficial Aquifer System in the coastal portions of the region, are not sufficient to meet projected water demands during a 1-in-10 drought condition. However, with appropriate management and diversification of water supply sources, there is sufficient water to meet the needs of the region. Analyses indicated that the traditional source for urban water needs, the surficial aquifer, has limited potential for expansion due to potential impacts on wetland systems, and increased vulnerability to saltwater intrusion in the vicinity of public water supply wellfields. In western portions of the region where surface water from

Web Address Is:

http://www.sfwmd.gov/org/wsd/wsp/uecwsp.htm


Discussion
South Florida
Water Management
District Boundaries